

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/ 500, 175A
Source: PET
Date Processed by STIC: 1-26-05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 01/26/2005

PATENT APPLICATION: US/10/500,175A

TIME: 12:53:46

Input Set : A:\sequence listing - 61536 (46342).txt

Output Set: N:\CRF4\01262005\J500175A.raw

(pg. 6)

```

3 <110> APPLICANT: Hirokazu Matsumoto
4      Jiro Noguchi
5      Mioko Harada
6      Masaaki Mori
8 <120> TITLE OF INVENTION: Body weight gain inhibitor
10 <130> FILE REFERENCE: 61536 (46342)
12 <140> CURRENT APPLICATION NUMBER: 10/500,175A
13 <141> CURRENT FILING DATE: 2004-06-25
15 <150> PRIOR APPLICATION NUMBER: PCT/JP01/13781
16 <151> PRIOR FILING DATE: 2002-12-27
18 <150> PRIOR APPLICATION NUMBER: JP2001-403260
19 <151> PRIOR FILING DATE: 2001-12-28
21 <150> PRIOR APPLICATION NUMBER: JP2002-93096
22 <151> PRIOR FILING DATE: 2002-03-28
24 <160> NUMBER OF SEQ ID NOS: 150
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 32
28 <212> TYPE: DNA
29 <213> ORGANISM: Artificial Sequence
31 <220> FEATURE:
32 <223> OTHER INFORMATION: Primer
34 <400> SEQUENCE: 1
35 atcgattaca atgcaggccg ctgggacccc ag 32
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 32
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Primer
45 <400> SEQUENCE: 2
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48 <210> SEQ ID NO: 3
49 <211> LENGTH: 1023
50 <212> TYPE: DNA
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 3
54 atcgattaca atgcaggccg ctgggacccc agagcccctt gacagcaggg gctccttctc 60
55 cctccccacg atgggtgcc acgtctctca ggacaatggc actggccaca atgccacctt 120
56 ctccgagcca ctgccgttcc tctatgtgct cctgcccgcc gtgtactccg ggatctgtgc 180
57 tgtggggctg actggcaaca cggccgtcat ccttgtaatc ctaagggcgc ccaagatgaa 240
58 gacgggtgacc aacgtgttca tcctgaacct ggccgtcgcc gacgggctct tcacgtggt 300
59 actgcccgtc aacatcgcg agcacctgct gcagtactgg cccttcgggg agctgctctg 360
60 caagctggtg ctggccgtcg accactacaa catcttctcc agcatctact tcctagccgt 420

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61 gatgagcgtg gaccgatacc tgggtggtgct ggccaccgtg aggtcccgcc acatgccctg 480
62 gcgcacctac cggggggcga aggtcgccag cctgtgtgtc tggctgggcg tcacggtcct 540
63 ggttctgccc ttcttctctt tcgctggcgt ctacagcaac gagctgcagg tcccaagctg 600
64 tgggctgagc ttcccgctggc ccgagcagggt ctggttcaag gccagccgtg tctacacggt 660
65 ggtcctgggc ttctgtgctgc ccgtgtgcac catctgtgtg ctctacacag acctcctgcg 720
66 caggctgcgg gccgtgcggc tccgctctgg agccaaggct ctaggcaagg ccaggcggaa 780
67 ggtgaccgtc ctggtcctcg tcgtgctggc cgtgtgcctc ctctgctgga cgcccttcca 840
68 cctggcctct gtcgtggccc tgaccacgga cctgccccag accccactgg tcatcagtat 900
69 gtcctacgtc atcaccagcc tcagctacgc caactcgtgc ctgaaccctt tcctctacgc 960
70 ctttctagat gacaacttcc ggaagaactt ccgcagcata ttgcggtgct gaagggcact 1020
71 agt 1023
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 333
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
78 <400> SEQUENCE: 4
79 Met Gln Ala Ala Gly His Pro Glu Pro Leu Asp Ser Arg Gly Ser Phe
80 1 5 10 15
81 Ser Leu Pro Thr Met Gly Ala Asn Val Ser Gln Asp Asn Gly Thr Gly
82 20 25 30
83 His Asn Ala Thr Phe Ser Glu Pro Leu Pro Phe Leu Tyr Val Leu Leu
84 35 40 45
85 Pro Ala Val Tyr Ser Gly Ile Cys Ala Val Gly Leu Thr Gly Asn Thr
86 50 55 60
87 Ala Val Ile Leu Val Ile Leu Arg Ala Pro Lys Met Lys Thr Val Thr
88 65 70 75 80
89 Asn Val Phe Ile Leu Asn Leu Ala Val Ala Asp Gly Leu Phe Thr Leu
90 85 90 95
91 Val Leu Pro Val Asn Ile Ala Glu His Leu Leu Gln Tyr Trp Pro Phe
92 100 105 110
93 Gly Glu Leu Leu Cys Lys Leu Val Leu Ala Val Asp His Tyr Asn Ile
94 115 120 125
95 Phe Ser Ser Ile Tyr Phe Leu Ala Val Met Ser Val Asp Arg Tyr Leu
96 130 135 140
97 Val Val Leu Ala Thr Val Arg Ser Arg His Met Pro Trp Arg Thr Tyr
98 145 150 155 160
99 Arg Gly Ala Lys Val Ala Ser Leu Cys Val Trp Leu Gly Val Thr Val
100 165 170 175
101 Leu Val Leu Pro Phe Phe Ser Phe Ala Gly Val Tyr Ser Asn Glu Leu
102 180 185 190
103 Gln Val Pro Ser Cys Gly Leu Ser Phe Pro Trp Pro Glu Gln Val Trp
104 195 200 205
105 Phe Lys Ala Ser Arg Val Tyr Thr Leu Val Leu Gly Phe Val Leu Pro
106 210 215 220
107 Val Cys Thr Ile Cys Val Leu Tyr Thr Asp Leu Leu Arg Arg Leu Arg
108 225 230 235 240
109 Ala Val Arg Leu Arg Ser Gly Ala Lys Ala Leu Gly Lys Ala Arg Arg
110 245 250 255
111 Lys Val Thr Val Leu Val Leu Val Val Leu Ala Val Cys Leu Leu Cys

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112          260          265          270
113 Trp Thr Pro Phe His Leu Ala Ser Val Val Ala Leu Thr Thr Asp Leu
114          275          280          285
115 Pro Gln Thr Pro Leu Val Ile Ser Met Ser Tyr Val Ile Thr Ser Leu
116          290          295          300
117 Ser Tyr Ala Asn Ser Cys Leu Asn Pro Phe Leu Tyr Ala Phe Leu Asp
118 305          310          315          320
119 Asp Asn Phe Arg Lys Asn Phe Arg Ser Ile Leu Arg Cys
120          325          330
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 687
124 <212> TYPE: RNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Riboprobe
130 <400> SEQUENCE: 5
131 caaaagcugg agcuccaccg cgguggcgcc cgcucuagcc cacuagugcc cuucagcacc 60
132 gcaauaugcu gcggaaguuc uuccggaagu ugucaucuag aaaggcguag aggaaggggu 120
133 ucaggcacga guggcgguag cugagggcug ugaugacgua ggacauacug augaccagug 180
134 gggucugggg cagguccgug gucagggcca cgacagaggc cagguggaag ggcguccagc 240
135 agaggaggca cacggccagc acgacgagga ccaggacggu caccuuccgc cuggccuugc 300
136 cuagagccuu ggcuccagag cggagccgca cggcccgcag ccugcgcagg aggucugugu 360
137 agagcacaca gauggugcac acgggcagca cgaagcccag gaccaacgug uagacacggc 420
138 uggccuugaa ccagaccugc ucgggccacg ggaagcucag cccacagcuu gggaccugca 480
139 gcucguugcu guagacgcca gcgaaagaga agaagggcag aaccaggacc gugacgcccc 540
140 gccagacaca caggcuggcg accuucgccc cccgguaggu gcgcccaggc auguggcggg 600
141 accucacggu ggccagcacc accagguauc gguccacgcu caucacggcu aggaaguaga 660
142 ugcuggagaa gauguuag uggucga 687
144 <210> SEQ ID NO: 6
145 <211> LENGTH: 17
146 <212> TYPE: PRT
147 <213> ORGANISM: Sus scrofa
149 <400> SEQUENCE: 6
150 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
151 1          5          10          15
152 Ala
154 <210> SEQ ID NO: 7
155 <211> LENGTH: 438
156 <212> TYPE: DNA
157 <213> ORGANISM: Homo sapiens
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: 408
162 <223> OTHER INFORMATION: n is a, c, g, or t
164 <400> SEQUENCE: 7
165 gccccatgag caggccagcg gcgcggccca ccgtgtggta gcggggactc gccacgtgct 60
166 tgtaccacgc gccggagggc agcggcagca ggagcagaag cagcagcagt gccagccgcg 120
167 gccggctcgc gggagcccc cgctccctg ggcgccacgc cagggcgctc gcgtcgacgg 180
168 ccgcccggcg gggcgggcca cgaaccggct cggctggggt tgggcgcgca gtggagttgg 240

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169 gacgcccagg taccggagcg caggaggctg gaggcgagcc gtgggtcccc tgcaggccca 300
170 gctataaccg ctcggtggcc ccgcctcggt ccgccccctc agtaccgctg ggctccccag 360
W--> 171 atgggggggag ggacggaggg aggagaggga accctggcag ctggcggnngg acgtgggtac 420
172 ttgagcacct cactgagt 438
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 264
176 <212> TYPE: DNA
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 8
180 gataggggtga gcgacgcagc cccatgagca ggccagcggc gcggcccacc gtgtggtagc 60
181 ggggactcgc cacgtgcttg taccacgcgc cggagggcag cggcagcagg agcagaagca 120
182 gcagcagtgc cagccgcggc cggctcgcgg gagccccccg ctccccctggg cgccacgcca 180
183 gggcgctcgc gtcgacggcc gcccggcggg gcggggccacg aaccggctcg gctgggtttg 240
184 ggcgcgcagt ggagttggga cgcc 264
186 <210> SEQ ID NO: 9
187 <211> LENGTH: 424
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 9
192 gataggggtga gcgacgcagc cccatgagca ggccagcggc gcggcccacc gtgtggtagc 60
193 ggggactcgc cacgtgcttg taccacgcgc cggagggcag cggcagcagg agcagaagca 120
194 gcagcagtgc cagccgcggc cggctcgcgg gagccccccg ctccccctggg cgccacgcca 180
195 gggcgctcgc gtcgacggcc gcccggcggg gcggggccacg aaccggctcg gctgggtttg 240
196 ggcgcgcagt ggagttggga cgccaggtta ccggagcgca ggaggtgga ggcgagccgt 300
197 ggggtcccctg caggcccagc tataaccgct cgggtggcccc gcctcgttcc gccccctcag 360
198 taccgctggg ctccccagat ggggggaggg acggagggag gagaggggaac cctggcagct 420
199 ggcg 424
201 <210> SEQ ID NO: 10
202 <211> LENGTH: 375
203 <212> TYPE: DNA
204 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 10
207 gcgcctcacc gtgtggtagc ggggactcgc cacgtgcttg taccacgcgc cggaggcagc 60
208 ggcacgagga gcagaagcag cagcagtgcc agccgcggcc ggctcgcggg agccccccgc 120
209 tccccctggg gccacgcagg gctacagcgt cgacggccgc ccgcggggcc atcgcaaccg 180
210 gctcggctgg gtttgggcgc gcagtggagt tgggacgccc aggtaccgga gcgcaggagg 240
211 ctggaggcga gccgtgggtc ccctgcaggc ccagctataa ccgctcgggtg gccccgcctc 300
212 gttccgcccc ctacgtaccg ctgggctccc cagaatgggg gagggacgga gggaggagag 360
213 ggaaccctgg cagct 375
215 <210> SEQ ID NO: 11
216 <211> LENGTH: 260
217 <212> TYPE: DNA
218 <213> ORGANISM: Homo sapiens
220 <220> FEATURE:
221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: 2, 61, 147, 189, 213, 237, 249
223 <223> OTHER INFORMATION: n is a, c, g, or t
225 <400> SEQUENCE: 11
W--> 226 cnacgttctc ggggacataa accctgttct tgctctaacc cgccaagggg ccatggactt 60

```

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227 nagecgcgtg gcgtcgagca gagaagtacg gggccctggg ccgggggctcc ggtgaaccgg 120
228 cccctgctac cgctactgct gcttctnctc ttgctacctc tgcccgccag cgctgggtac 180
229 aagcacgtng cgagccctcg ctatcacaca gtnggtcgtg cctccgggct gctcatnggg 240
230 ctgcgccgnt cgctctacct                                     260
232 <210> SEQ ID NO: 12
233 <211> LENGTH: 24
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Primer
240 <400> SEQUENCE: 12
241 aactccactg cgcgccccaa ccca 24
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 24
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Primer
251 <400> SEQUENCE: 13
252 tctcccacag ctctgaacc cacg 24
254 <210> SEQ ID NO: 14
255 <211> LENGTH: 375
256 <212> TYPE: DNA
257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 14
260 aactccactg cgcgccccaa cccagccgag ccggttcgtg gcccgcgccg ccggggcgcc 60
261 gtcgacgcga gcgccctggc gtggcgccca ggggagcggg gggtcccgc gagccggccg 120
262 cggctggcac tgctgctgct tctgctcctg ctgccgctgc cctccggcgc gtggtacaag 180
263 cacgtggcga gtccccgcta ccacacgggtg ggccgcgccg ctggcctgct catggggctg 240
264 cgctcgctcac cctactgtg gcgcgcgcgc ctgcgcgcgc ccgcccggcc cctggccagg 300
265 gacacctct ccccggaacc cgcagccgcg gaggctcctc tctgtgtgcc ctcggtgggtt 360
266 caggagctgt gggag                                     375
268 <210> SEQ ID NO: 15
269 <211> LENGTH: 125
270 <212> TYPE: PRT
271 <213> ORGANISM: Homo sapiens
273 <400> SEQUENCE: 15
274 Asn Ser Thr Ala Arg Pro Asn Pro Ala Glu Pro Val Arg Gly Pro Pro
275 1 5 10 15
276 Arg Arg Ala Ala Val Asp Ala Ser Ala Leu Ala Trp Arg Pro Gly Glu
277 20 25 30
278 Arg Gly Ala Pro Ala Ser Arg Pro Arg Leu Ala Leu Leu Leu Leu
279 35 40 45
280 Leu Leu Leu Pro Leu Pro Ser Gly Ala Trp Tyr Lys His Val Ala Ser
281 50 55 60
282 Pro Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu
283 65 70 75 80
284 Arg Arg Ser Pro Tyr Leu Trp Arg Arg Ala Leu Arg Ala Ala Ala Gly
285 85 90 95

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/26/2005
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 408
Seq#:11; N Pos. 2, 61, 147, 189, 213, 237, 249
Seq#:95; Xaa Pos. 21
Seq#:103; Xaa Pos. 21
Seq#:104; Xaa Pos. 21
Seq#:105; Xaa Pos. 1
Seq#:106; Xaa Pos. 1
Seq#:111; Xaa Pos. 1
Seq#:112; Xaa Pos. 1
Seq#:113; Xaa Pos. 1

VERIFICATION SUMMARY

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L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:1298 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:95
L:1305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:16
L:1386 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:103
L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:16
L:1402 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:104
L:1409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:16
L:1418 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:105
L:1423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0
L:1434 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:106
L:1439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0
L:1490 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:111
L:1495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:1506 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:112
L:1511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:1522 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:113
L:1527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113 after pos.:0